Application Serial No. 10/643,376
Amendment dated August 27, 2004
Reply to office action dated May 27, 2004

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-32.   (canceled)

33.   (new) A thermostat system comprising:

a processor having a user interface; and

a program, in the processor, having an at least one

configuration for an air management system, the

at least one configuration comprising:

an air management system identification;

a listing of zones for the air management

system;

parameter settings for each zone;

schedules of the parameter settings;

a modulated control for a plurality of

heating stages for at least one zone;

and

a modulated control for a plurality of

cooling stages for at least one zone.

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34.   (new) The system of claim 33, further comprising:

a plurality of programmable thermostats; and

wherein the processor may download the program having

at least one configuration to each thermostat of

the plurality of thermostats.

35.   (new) The system of claim 34, wherein the at least one

configuration further comprises a modulated control for a

simultaneous operation of a heating device and a cooling

device.

36.   (new) The system of claim 35, wherein the simultaneous

heating device and the cooling device is for affecting

humidity.

37.   (new) The system of claim 36, wherein the at least one

configuration comprises a modulated control for an air

mover.

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38.   (new) The system of claim 37, wherein the modulated

controls comprise PID (proportional, integral and

derivative) control loop tuning.

39.   (new) The system of claim 38, wherein the parameters

are selected from a group consisting of temperatures,

humidity, sensor selection, volume of air movement, the

percentage of added fresh air, modes of occupied,

unoccupied or standby of certain spaces for at least one

zone.

40.   (new) The system of claim 38, wherein the at least one

configuration further comprises a selectable non-modulated

control for the pluralities of the heating and cooling

stages and for the air mover.

41.   (new) The system of claim 40, wherein the processor is

a portable configuring device.

42.   (new) The system of claim 41, wherein the processor

has a capability comprising:

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uploading a configuration from a thermostat of the

plurality of thermostats;

modifying the configuration; and

downloading the configuration to the thermostat.

43.   (new) The system of claim 42, wherein the processor

may download the configuration to several thermostats of

the plurality of thermostats.

44.   (new) The system of claim 41, wherein:

the processor may upload a configuration from a

thermostat of the plurality of thermostats;

the configuration may be diagnosed for possible

problems;

the configuration may be modified to remove the

possible problems; and

the configuration may be downloaded to the thermostat

of the plurality of thermostats.

45.   (new) The system of claim 41, wherein the processor is

a personal digital assistant.

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46.   (new) The system of claim 45, the personal digital

assistant is selected from group of devices consisting of a

Palm™ and the like

47.   (new) A thermostat system comprising:

a configuring device; and

a plurality of thermostats for air management systems,

respectively; and

wherein:

the configuring device may upload, store, modify

and download one or more configurations of

the plurality of thermostats;

each configuration may be modified by changing:

parameter settings;

schedules of parameter settings; and

modulated controls for heating stages

and cooling stages.

48.   (new) The system of claim 47, wherein each air

management system may have a plurality of zones.

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49.   (new) The system of claim 48, wherein the configuring

device has various configurations that may be downloaded to

the thermostats of the air management systems at different

locations.

50.   (new) The system of claim 49, wherein the configuring

device is a commercially available computer.

51.   (new) The system of claim 50, wherein the configuring

device is a person digital assistant.

52.   (new) The system of claim 51, the personal digital

assistant is selected from group of devices consisting of a

Palm™ and the like.

53.   (new) A thermostat system comprising:

    a plurality of thermostats; and

    wherein each thermostat of the plurality of

        thermostats comprises at least one configuration

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for an air management system, the at least one

configuration comprising:

an air management system identification;

a listing of zones for the air management

system;

parameter settings for each zone;

schedules of the parameter settings;

modulated controls for a plurality of

heating stages for at least one zone;

and

modulated controls for a plurality of

cooling stages for at least one zone.

54. (new) The system of claim 53, wherein the plurality of

thermostats is connected to a communications bus.

55. (new) The system of claim 54, further comprising a

sequencing system controller connected to the

communications bus, for controlling and staging the

plurality of thermostats.

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56.   (new) The system of claim 55, wherein the at least one

configuration further comprises a modulated control for a

simultaneous operation of a heating device and a cooling

device.

57.   (new) The system of claim 56, wherein the simultaneous

heating device and the cooling device is for affecting

humidity.

58.   (new) The system of claim 57, wherein the at least one

configuration comprises a modulated control for an air

mover.

59.   (new) The system of claim 58, wherein the modulated

controls comprise PID (proportional, integral and

derivative) control loop tuning.

60.   (new) The system of claim 58, wherein the parameters

are selected from a group consisting of temperatures,

humidity, sensor selection, volume of air movement, the

percentage of added fresh air, modes of occupied,

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unoccupied or standby of certain spaces for at least one

zone.

61.   (new) The system of claim 58, wherein the at least one

configuration further comprises a selectable non-modulated

control for the pluralities of the heating and cooling

stages and for the air mover.

62.   (new) The system of claim 61, further comprising:

   a configuring device; and

   wherein:

   the configuring device may communicate with system

       sequencing controller; and

   the configuring device may upload, store, modify and

       download one or more configurations of the system

       sequencing controller and at least one

       configuration of the plurality of thermostats.

63.   (new) The system of claim 61, wherein the configuring

device is a personal digital assistant.

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